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Entry 4 of 10

File: JPAB

Jun 13, 1990

DOCUMENT-IDENTIFIER: JP 02153930 A

TITLE: FLUORINE-CONTAINING PHENOXY RESIN, COMPOSITION AND USE THEREOF

## FPAR:

CONSTITUTION: A fluorine-containing phenoxy resin composition obtained by thermally reacting, e.g. a phenoxy resin, with a perfluoroalkyl ether-based oligomer and/or hexafluoropropene oligomer in the presence or absence of a solvent in the presence of a basic catalyst, such as triethylamine, providing a fluorine-containing phenoxy resin having a structural formula of formula I [ $R_f$  is a group expressed by formula II ( $n$  is 0-50) or formula III ( $R'$ ,  $R''$  and  $R'''$  are  $CF_3$ ,  $C_2H_5$ , etc.);  $m$  is about 100], subsequently mixing the above-mentioned resin with a fluorine-containing compound, such as formula IV, a polymer, such as polyimide, and a polyfunctional epoxy compound, such as bisphenol A diglycidyl ether.

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Entry 6 of 10


File: EPAB


Jan 25, 1989


DOCUMENT-IDENTIFIER: EP 300358 A1

TITLE: Process for the production of perfluoroalkyl-containing epoxides, and perfluoroalkyl-containing epoxides.

FPAR:

Perfluoroalkyl-containing epoxides of the formula 1  in which Rf is a perfluoroalkyl-containing radical, X is halogen, a is 1 to 4 and b is 0 to 20, are prepared by reacting a fluoroalcohol/ epihalohydrin adduct of the formula 2

 in which Rf, X, a and b have the meanings mentioned, with alkali metal hydroxide or alkaline earth metal hydroxide in the form of an aqueous solution in the presence of phase-transfer catalysts and at a pH of 9 to 12. The

perfluoroalkyl-containing epoxides are those of the formula 3  in which Rf, X and a have the meanings mentioned and b is 1 to 20. The epoxides in question are advantageous monomers for the preparation of fluorine-containing epoxy resins and epoxy copolymers, which in turn are good finishing agents for textiles and leather.

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Entry 10 of 10

File: DWPI

Dec 8, 1989

DERWENT-ACC-NO: 1990-026710

DERWENT-WEEK: 199718

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TITLE: New fluorine-contg. di:ol(s), for resin modifiers - prepd. by reacting epoxy cpds. and water in non-reactive organic solvent in acid catalyst

PRIORITY-DATA:

1988JP-0134569

May 31, 1988

PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES

MAIN-IPC

JP 01305045 A

December 8, 1989

N/A

003

N/A

JP 2526993 B2

August 21, 1996

N/A

004

C07C043/13

INT-CL (IPC): B01F 17/42; C07B 61/00; C07C 41/03; C07C 43/13

ABSTRACTED-PUB-NO: JP01305045A

BASIC-ABSTRACT:

Fluorine-contg. diols of formula (I) and their prepn. are new. (Rf is 4-20C perfluoroalkyl; n is 1 or 2). Pref. (I) are prepd. by reacting epoxy cpds. of formula (II) and water in non-reactive organic solvent selected from ketones, ethers, sulphoxides, and sulphones in presence of (in)organic acid catalyst. Raw materials (II) are easily obtd. by reacting readily available cpds. of formula Rf(CH2)NOH (III) and epichlorohydrin in presence of alkali metal hydroxide (US patent, No. 3,361,685 and 3,417,035). Use amts. of water and acid catalyst are 1, (5), molar equiv(s). and 0.01-5 wt%, respectively, to (II). Acids used may be mineral acids e.g. sulphuric-, hydrochloric- and nitric-acid or organic acids eg acetic- and p-toluenesulphonic-acid. Reaction temp. is 30-100, (60-90), deg C.

USE/ADVANTAGE - Cpds. (I) are useful as resin modifiers. (I) improve water absorbency, weatherproofness, and elasticities of resins and insurance of conventional improvement of water or oil-repellency and low refractive index.

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ALL	catalyst	577196	<u>L3</u>
ALL	fluorine same l1	134	<u>L2</u>
ALL	epoxy same perfluoroalkyl	417	<u>L1</u>